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PURUISI Hydraulic Filtration



Filter element



Return(Suction)-Line Filter



Pressure Filter



Spin-on Filter



Mobile Filtration Systems



In-line Filtration Systems



Filter Breather



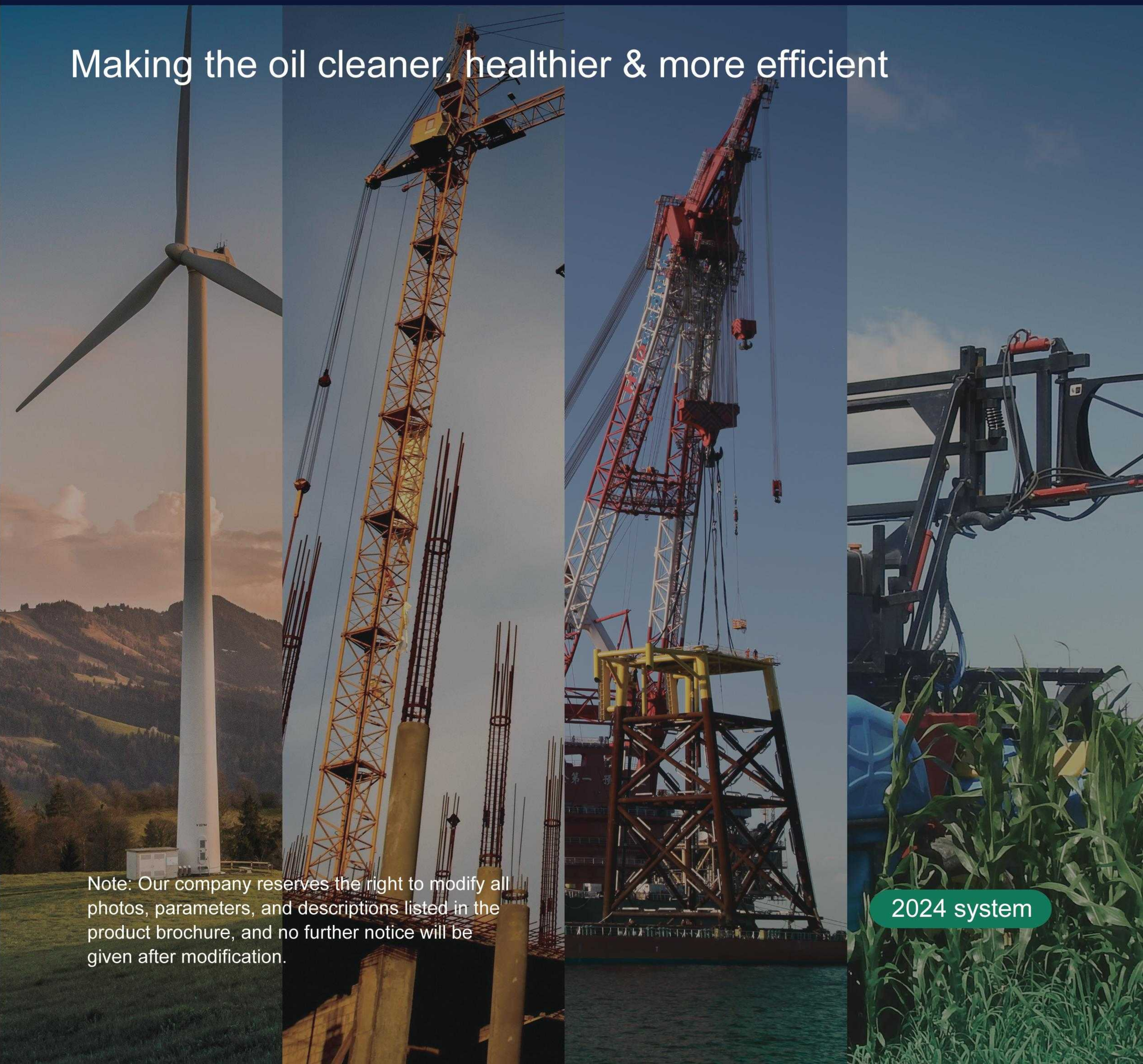
Particle and Desiccant Breathers



Level and Temperature Gauges



Clamp And Other



Making the oil cleaner, healthier & more efficient

Note: Our company reserves the right to modify all photos, parameters, and descriptions listed in the product brochure, and no further notice will be given after modification.

2024 system



Introduction of Company

Wuhu Puruisi Fluid Technology Co., Ltd., located in Wuhu, China, is a specialized enterprise engaged in the research, development, manufacturing, sales, and service of hydraulic filtration components.

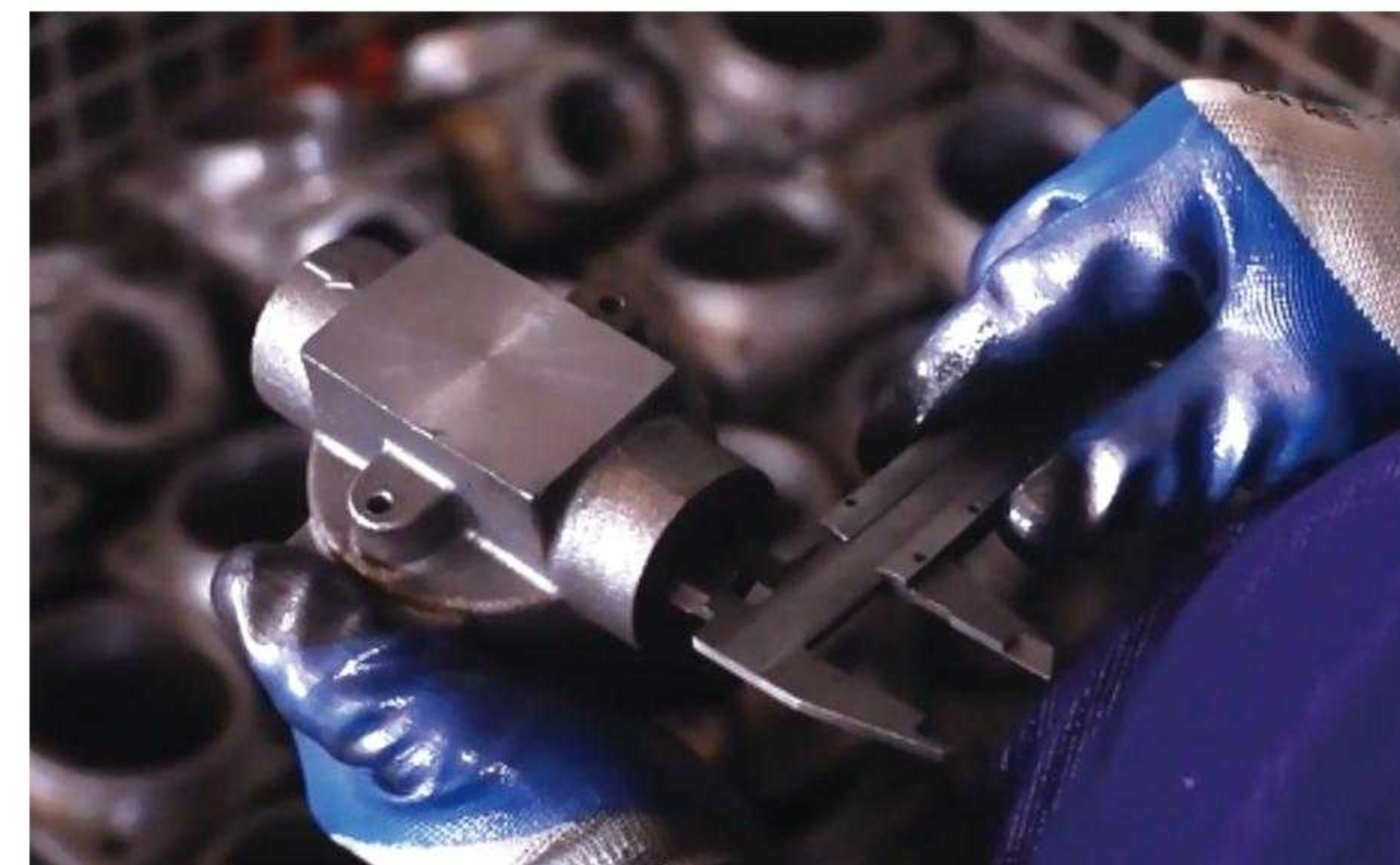
With over **20** years of experience in the relevant industry, the company boasts highly qualified technical and managerial personnel, as well as sophisticated processing and testing equipment. Adhering strictly to ISO testing standards, the company provides reliable data for the design of hydraulic component products.

Our main products include hydraulic filters, filter cartridges, air filters, level gauges, pipe clamps, filtration devices, and other hydraulic accessories.

These products are widely used in various fields such as engineering machinery, metallurgy, power, petroleum, chemical, shipping, agriculture, and agricultural machinery.

As an experienced manufacturer, PURUISI provides fast and direct replacement filter cartridges suitable for industrial fluids such as hydraulic oil,

lubricating oil, heavy fuel, water, chemicals, coolants, and other media. These replacement filters ensure the same performance as the original components while meeting the requirements of form, installation, and function.



Filtration Technology Testing Center

Our Filtration Technology Testing Center is equipped with a variety of testing equipment. This laboratory is responsible for conducting research, testing, and experiments on filtration technology in our company. It is capable of testing multiple parameters, including various indicators related to filters, from filter elements to filter housings.

Currently, the laboratory can perform testing and validation according to the following standards:

ISO16889

Hydraulic fluid power — Filters — Multi-pass method for evaluating filtration performance of a filter element

ISO2941

Hydraulic fluid power — Filter elements — Verification of collapse/burst pressure rating

ISO2942

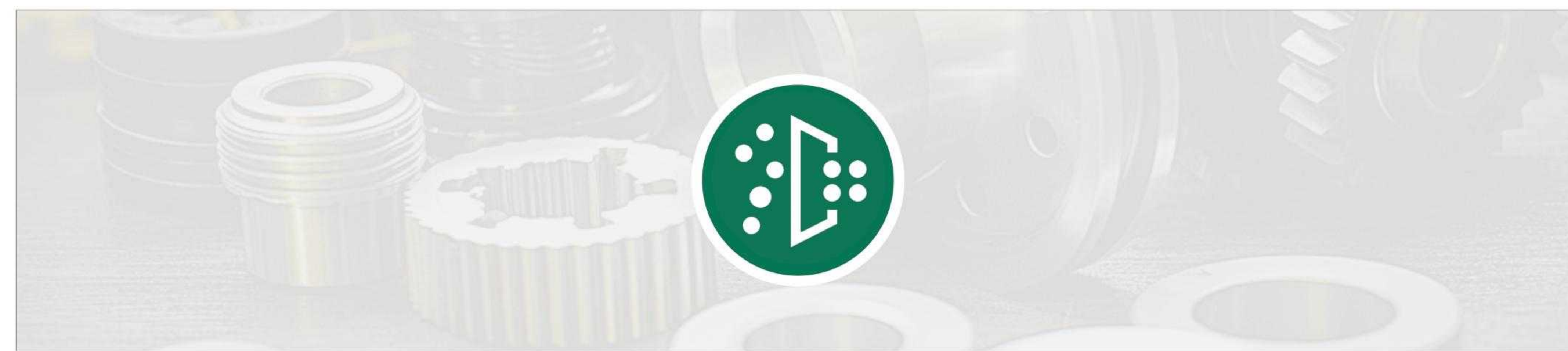
Hydraulic fluid power — Filter elements — Verification of fabrication integrity and determination of the first bubble point

ISO3724

Hydraulic fluid power — Filter elements — Determination of resistance to flow fatigue using particulate contaminant

ISO10771

Hydraulic fluid power — Fatigue pressure testing of metal pressure-containing envelopes



Filtration Technology Testing Center



Filtration Technology Testing Center



Metal Pressure Fatigue Pressure Testing - Pulse Testing Platform



Filter Element Structural Integrity Testing Platform



Multiple Pass Method for Evaluating Filter Element Filtration Performance



Hydraulic Filter - Bypass Valve Performance Testing Platform



Level Gauge - Air Tightness Testing Platform



Participate in exhibitions in 2023



Our company participated in the "CICEE Changsha International Construction Machinery Exhibition" held in May 2023.



Our company participated in the "2023 Beijing International Wind Energy Conference and Exhibition" held in Beijing in October 2023.

Filter element



Return(Suction)-Line
Filter



Pressure Filter



Spin-on Filter



Mobile Filtration
Systems



In-line Filtration
Systems



Filter Breather



Particle and
Desiccant Breathers



Level and
Temperature Gauges



Clamp And Other



Product Function Introduction

Pressure Filter

- Pressure Filters are placed behind the pump and clean the hydraulic oil before it flows downstream to components like valves, cylinders, etc. The main reason for pressure filtration is the protection of downstream, sensitive components.
- Eroded particles from the pump are immediately filtered out of the hydraulic oil. Besides working as a protection filter, Pressure Filters also help to maintain the required purity class.
- Because it is placed right behind the pump, a Pressure Filter has to withstand the maximum system pressure. The filter element in the Pressure Filter also has to withstand the loads and is more intricately constructed.

Return-Line Filter

Return-Line Filters are installed in the Return-Line, on top of or within the oil tank. They filter the hydraulic oil before it flows back into the reservoir. This ensures that contamination arising in the components does not get into the tank. Return-Line Filters maintain the targeted purity class like Pressure Filters. However, because of their arrangement, they do not fulfill the additional function of a protection filter. In contrast to a Pressure Filter, it only has to withstand low-pressure levels.

Suction Strainers

The job of Suction Strainers is mainly to provide functional protection for the downstream pumps in the circulation. Suction Strainers always have to be provided if the risk of pump damage from coarse impurities is exceptionally high. This risk exists if impurities are collected in the tank and can't be filtered out afterward. Suction Strainers are rough filter elements with a micron rating that is usually bigger than 100 µm.

The replacement cycles of filter inserts are highly dependent on the surrounding conditions of the hydraulic system.

Particle and Desiccant Breathers

Another variant of the breather is the Desiccant Air Breather. The additional function of this filter is the dehumidification of the inflowing air with a special silicate gel.

Mobile Filtration Systems

Bypass Filters are not part of the main hydraulic system. They are supplementary to achieving the best possible filtration results. Bypass Filters on the other hand use the existing system pressure to draw a small volumetric flow out of the hydraulic system for filtration.

Diffuser

Diffuser are used in combination with Return-Line Filters and ensure that the returning oil flow is settled before it reaches the oil tank thereby preventing foaming and re-suspension of deposited dirt.

Filter Breather

Filter Breathers are mounted on the oil tank and prevent the entry of dirt from the surroundings during tank breathing. At the same time, it can play a filtering role when refueling.

Spin-on Filter

provides a complete range of Spin-On Filters that can be used either as Suction Filters or as Return-Line filters for low-pressure applications.

Level Gauge

By using a liquid level gauge, you can easily know the liquid level in the tank. Fluid enters the unit through the lower connecting hole and is clearly visible in the tube. By choosing the right size, a specific liquid level can be monitored.

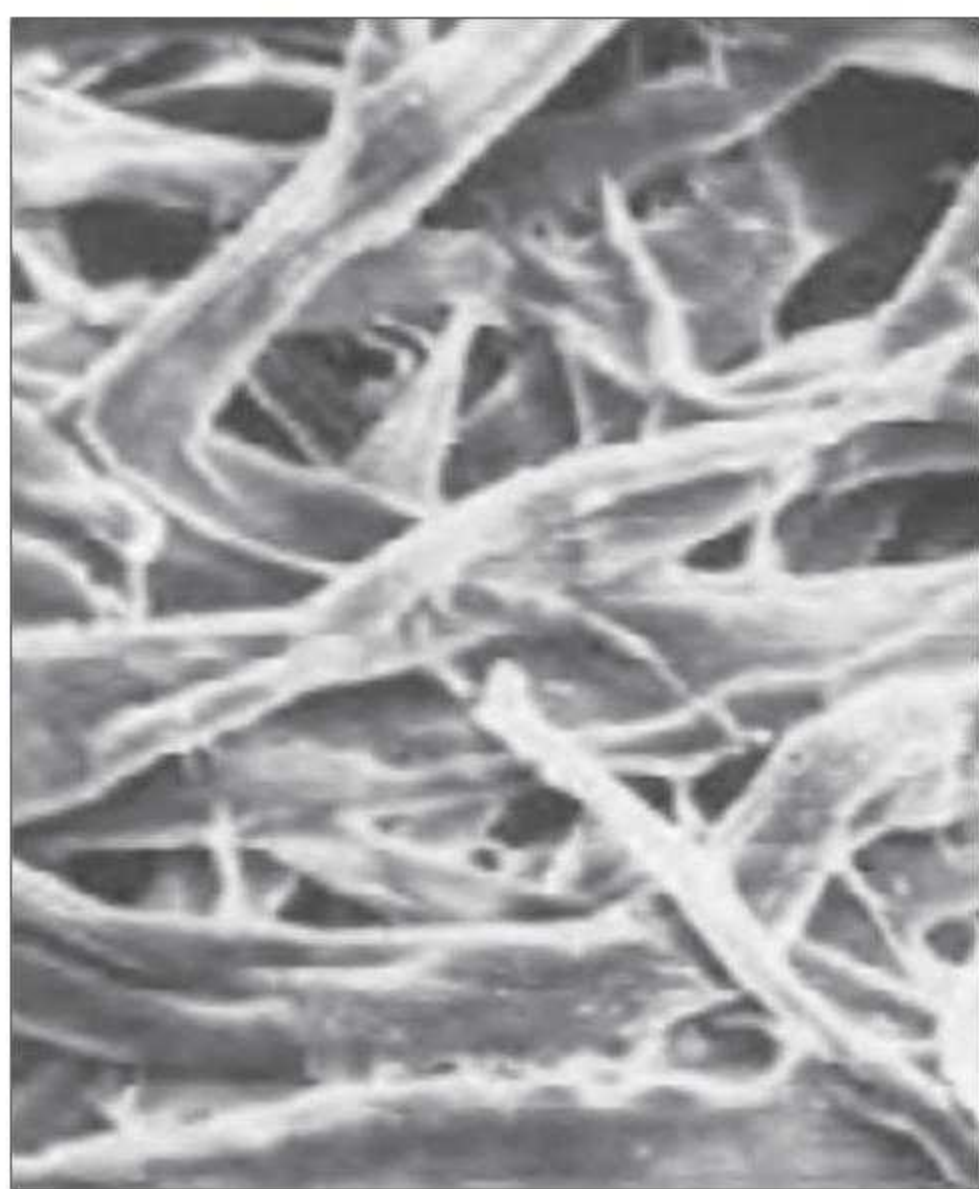
Filter Material

The choice of the right filter material is dependent on different criteria. Among others, this includes the type of application, the filter function, the degree of contamination, or alternatively the required dirt-hold capacity as well as requirements of chemical or physical resistance.

Composite Fiberglass, Cellulose, and Stainless Steel Wire Mesh are used for hydraulic applications (Other materials are also available on request) .

The following list gives you an overview of how these three filter materials differ in regard

Specific properties:

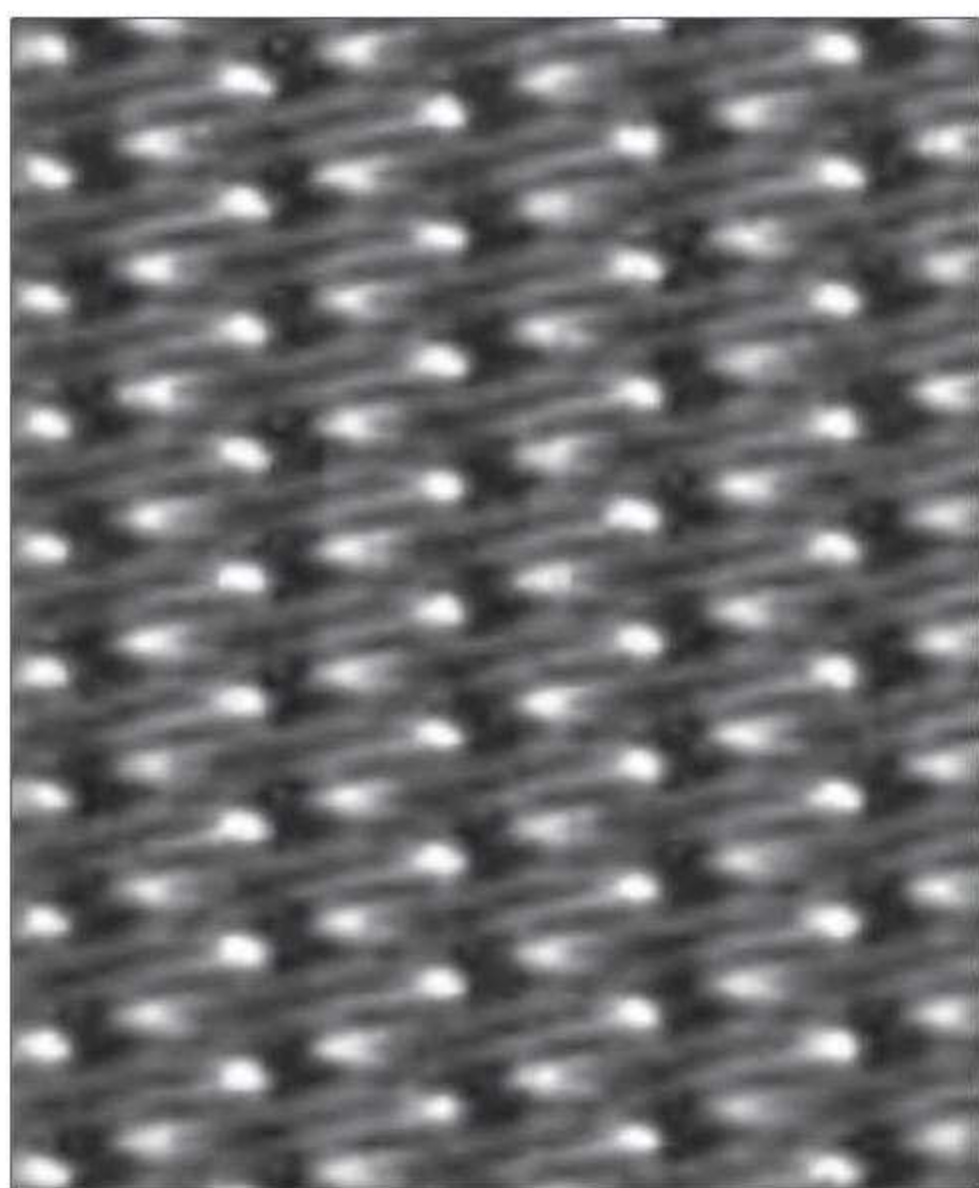


Cellulose

- Filter material made of Cellulose Fibre with special impregnation
- Variants with the lowest price with
- good dirt-hold capacity
- Not suitable for water-based fluids

Micron rating: 10 ... 50 µm

(alternative micron ratings on request)



Stainless Mesh

- Wire mesh fabric with metal surface (other materials on request)
- Type of weave: square weave or Dutch weave
- Low flow resistance due to large-pored screening surface
- Excellent chemical and thermal resistance

Micron rating: 10 ... 1000 µm

(alternative micron ratings on request)



Composite Glass Fiber

- Inorganic glass fibers based on synthetic fibers combined with acrylic resin
- Large dirt holding capacity
- Depth filtration, excellent separation efficiency for the finest particles Cost-effective

Micron rating: 3 ... 50 µm

(other micron ratings available upon request)

Metal braid mesh number/accuracy comparison table

Mesh Number Of Stitches(M) Mes	Filtration accuracy(u) Micron
20	850
30	600
40	425
50	300
60	270
80	198
100	154
120	132
150	109
200	75
250	60
300	45
400	40
80/700	25
165/600	20
165/1400	10
200/1400	5
325/2300	2



Filter element

The filter element is the core part of the filter. The filtration process actually takes place in the filter cartridge. The filter element used and the filter element material used in the filter element determine the main characteristics of the filter, such as the filtering capacity, dirt holding capacity, and pressure loss of the filter element. PURUISI filter elements can be used to filter hydraulic oil in hydraulic systems, as well as filter lubricants, industrial oil bodies, and gases.

- PURUISI manufactures the most comprehensive hydraulic and lubrication line of replacement filter elements
- Compatible with most common international brand products

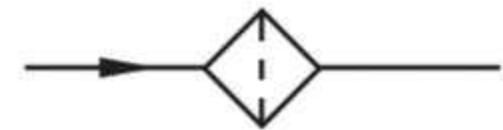
The PURUISI replacement filter program includes more than 10.000 part numbers of replacement filter elements, covering almost all major international brands of filter elements.



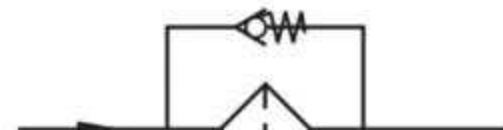
Replacement Filter Element for Return(Suction)–Line Filters

- **Filter media:**
Composite Fiberglass, Cellulose, Stainless Steel Wire Mesh
- **Micron rating:** see on page 2
- **max. Δp^* collapse:**
10 ... 25 bar / 145 ... 362 PSI
- **Sealing Material:**
NBR, FKM/FPM
- **Bypass:**
1 ... 6 bar / 14.5 ... 87 Psi
- **End cap:**
Plastic / Steel / Stainless Steel

(alternative End caps on request)



No bypass valve



With bypass valve



Replacement Filter Element for Pressure Filters

- **Filter media:**
Composite Fiberglass, Cellulose, Stainless Steel Wire Mesh
- **Micron rating:** see on page 2
- **max. Δp^* collapse:**
10 ... 210 bar / 145 ... 3045 PSI
- **Sealing Material:**
NBR, FKM/FPM
- **End cap:**
Steel / Stainless Steel / Aluminium

(alternative End caps on request)



Replacement Filter Element for Spin-On-Filters

- **max. Δp^* collapse:**
5 ... 20 bar / 72 ... 290 PSI
- **Sealing Material:**
NBR
- **Connection Thread:**
BSP / UNF / NPT



Special Filter



■ Manifold Cartridge Filter



■ Line gap filter



■ Other Forms Of Hydraulic Filter Elements



■ Special High Pressure Filter



■ Air Filter Element



■ Filter Element 1



■ Filter Element 2

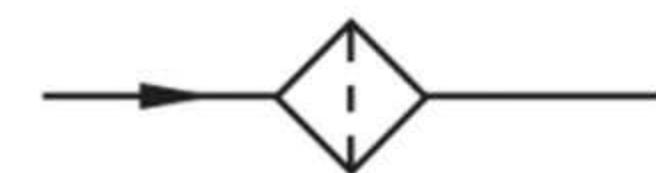


Suction Filter/Diffuser

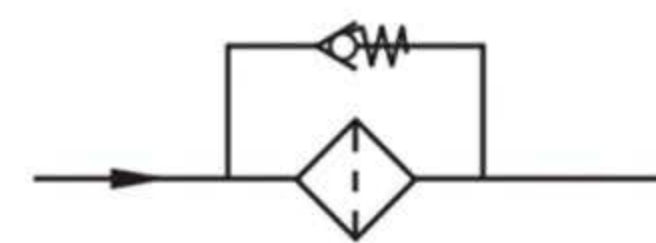


Suction Filter

- **Filter media:**
Stainless Steel Wire Mesh
- **Micron rating:**
see on page 2
- **Flow Rate:**
16–1000 l/min / 4–264 US GPM
- **Bypass:**
0,2 bar / 2.9 PSI
- **End cap:**
Aluminium / Plastic
- **Connection Thread:**
BSP / NPT



No bypass valve



With bypass valve

(alternative End caps on request)



JL –Suction Filter



Suction Filter



Return(Suction)–Line Filter

- Return–Line Filters are installed in the Return–Line, on top of or within the oil tank.
- They filter the hydraulic oil before it flows back into their reservoir. This ensures that contamination arising in the components does not get into the tank. Return–Line Filters maintain the targeted purity class like Pressure Filters. However, because of their arrangement, they do not fulfill the additional function of a protection filter.
- In contrast to a Pressure Filter, it only has to withstand low–pressure levels.

Media Compatibility

- Mineral oils, others on request

Options and Accessories

- Valves: Bypass valve integrated into the filter element, Self–sealing valve that works when changing the filter element
- Magnetic column: it can be added according to the actual usage to increase the function of magnetic impurity adsorption

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- Visual clogging indicator, electrical clogging switch, visual–electrical indicator available upon request
- Others on request

Type PF Return–Line Filter

Return–Line Filters are installed in the Return–Line, on top of or within the oil tank. Bypass valve integrated into the filter element

- **Operating pressure:**
max. 25 Bar /362 psi
- **Nominal flow rate:**
max. 1300 l/min / max.343 US GPM
- **Materials:**
Filter: Aluminium
- **Connections:**
optional threaded connection or SEA flange connection



Type PFM Return–Line Filter

For tank top installation, with bypass valve

- **Operating pressure:**
max. 10 Bar /145 psi
- **Nominal flow rate:**
max. 850 l/min / max.224US GPM
- **Materials:**
Filter Head: Aluminium
Filter Cover: Aluminium
Filter Bowl: Aluminium
- **Connections:**
optional threaded connection or SEA flange connection



Type PCFA Suction–Line Filter

For tank top or side mounting, The product has a self–sealing valve. The product has a magnetic column, which has the function of magnetic impurity adsorption.

- **Operating pressure:**
max. 25 Bar /362 psi
- **Nominal flow rate:**
max. 630 l/min / max.166US GPM
- **Materials:**
Filter Head: Aluminium
Filter Cover: Aluminium
- **Connections:**
SEA flange connection



Type PKM Return(Suction)–Line Filter

For tank top installation, with bypass valve

- **Operating pressure:**
max. 10 Bar /145 psi
- **Nominal flow rate:**
max. 850 l/min / max.224US GPM
- **Materials:**
Filter Head: Aluminium
Filter Cover: Aluminium
Filter Bowl: Aluminium
- **Connections:**
optional threaded connection or SEA flange connection





Return(Suction)-Line Filter



Type PYR Return(Suction)-Line Filter

For pipeline installation, with bypass valve

- **Operating pressure:**
max. 28 Bar /406 psi
- **Materials:**
Filter Head: Aluminium
Filter Cover: Aluminium
Filter Bowl: Aluminium
- **Connections:**
optional threaded connection
or SEA flange connection



Type PFD Duplex oil return filter

Return-Line Filters are installed in the Return-Line, on top of or within the oil tank. Bypass valve integrated into the filter element

- **Operating pressure:**
max. 25 Bar /362 psi
- **Nominal flow rate:**
max. 1300 l/min / max.343 US GPM
- **Materials:**
Aluminium
- **Connections:**
optional threaded connection
or SEA flange connection



Type PIF Return(Suction)-Line Filter

For tank interior installation

- **Operating pressure:**
max. 10 Bar /145 psi
- **Nominal flow rate**
max. 2000 l/min / max.528US GPM
- **Connections:**
Flange: Aluminium
Magnet/Bypass/Diffuser: Steel



PMTF Oil Return Filter

Installed on the oil tank, the oil return filter can have an extended tube, outlet flow diffuser, and oil level gauge at the bottom.

- **Operating Pressure:** max 0.8 bar /116 psi
- **Nominal Flow Rate:** max 500l/min | max 132 US GPM
- **Material:**
Filter Housing: Aluminum
Filter Cover: Aluminum
Filter Cylinder: Nylon
- **Connection Method:** Threaded Connection



Pressure Filter

- Pressure Filters are placed behind the pump and clean the hydraulic oil before it flows downstream to components like valves, cylinders, etc. The main reason for pressure filtration is the protection of downstream, sensitive components.
- Eroded particles from the pump are immediately filtered out of the hydraulic oil. Besides working as a protection filter, Pressure Filters also help to maintain the required purity class.
- Because it is placed right behind the pump, a Pressure Filter has to withstand the maximum system pressure. The filter element in the Pressure Filter also has to withstand the loads and is more intricately constructed.

Media Compatibility

- Mineral oils, others on request

Options and Accessories

- Valves: Bypass valve, reverse flow valve, check valve or multi-function valve available

Clogging Indicators

- Visual clogging indicator, electrical clogging switch, visual-electrical indicator available upon request
Others on request



Type PIE High-Pressure Filter

High Pressure Filters for Hydraulic Lines
Threaded mounting holes on top and fluid inlet and outlet ports on side of head

- **Operating pressure:**
max. 420 Bar /6091 psi
- **Nominal flow rate:**
max. 1500 l/min / max.396 US GPM
- **Materials:**
Filter Head: Ductile Iron
Filter Cartridge: Steel
- **Connections:**
optional threaded connection
or SEA flange connection



Type PFP Panel Mount High Pressure Filters

High pressure filter designed for panel mounting
Mounting holes and fluid inlet and outlet ports on the side of the head

- **Operating pressure:**
max. 320 Bar /4641 psi
- **Nominal flow rate:**
max. 1320 l/min / max.348 US GPM
- **Materials:**
Filter Head: Ductile Iron
Filter Cartridge: Steel
- **Connections:**
Plate flange connection



PF...QE/MA Plate mounted high-pressure filter

High pressure filter designed for panel mounting
Mounting holes and fluid inlet and outlet ports on the side of the head

- **Operating pressure:**
max. 320 Bar /4641 psi
- **Nominal flow rate:**
max. 1320 l/min / max.348 US GPM
- **Materials:**
Filter Head: Ductile Iron
Filter Cartridge: Steel
- **Connections:**
Plate flange connection



Type MPM High-Pressure Filter

High Pressure Filters for Hydraulic Lines
Threaded mounting holes on top and fluid inlet and outlet ports on side of head

- **Operating pressure:**
max.280 Bar /4061 psi
- **Nominal flow rate:**
max. 100 l/min / max.26 US GPM
- **Materials:**
Filter Head: Ductile Iron
Filter Cartridge: Steel
- **Connections:**
optional threaded connection



Pressure Filter



Type PFZ High-pressure Manifold Filter

Sandwich mounted between valves and manifold or subplate reducing overall dimensions
Additional left hand version available (defaults to right-handed version)

- **Operating pressure:**
max.320 Bar /4641 psi
- **Nominal flow rate:**
max. 110 l/min / max.29 US GPM
- **Materials:**
Filter Head:Steel
Filter Cartridge:Steel



Type PFDK High-pressure duplex filter

High Pressure Filters for Hydraulic Lines
Threaded mounting holes on top and fluid inlet and outlet ports on side of head.
In-line duplex filter with a wide range of element media options, designed to allow element change out in continuous duty machine operations.

- **Operating pressure:**
max. 320 Bar /4641 psi
- **Nominal flow rate:**
max.1320 l/min / max.348 US GPM
- **Materials:**
Filter Head: Steel
Filter Cartridge:Steel
- **Connections:**
optional threaded connection
or SEA flange connection



Type PLFA High-Pressure Filter

High Pressure Filters for Hydraulic Lines
Threaded mounting holes on the back of the head and fluid in and out ports on the side of the head.

- **Operating pressure:**
max. 320 Bar /4641 psi
- **Nominal flow rate:**
max. 660 l/min / max.174 US GPM
- **Materials:**
Filter Head: Ductile Iron
Filter Cartridge:Steel
- **Connections:**
optional threaded connection
or SEA flange connection



Type PLND Medium-pressure duplex filter

Medium Pressure Filters for Hydraulic Lines
Threaded mounting holes on top and fluid inlet and outlet ports on side of head.
In-line duplex filter with a wide range of element media options, designed to allow element change out in continuous duty machine operations.

- **Operating pressure:**
max. 63 Bar /913 psi
- **Nominal flow rate:**
max. 400 l/min / max.105 US GPM
- **Materials:**
Filter Head: Aluminum
Filter Cartridge:Aluminum
- **Connections:**
optional threaded connection
or SEA flange connection



Pressure Filter



Type PMND High-pressure duplex filter

High Pressure Filters for Hydraulic Lines
Threaded mounting holes on top and fluid inlet and outlet ports on side of head.
In-line duplex filter with a wide range of element media options, designed to allow element change out in continuous duty machine operations.

- **Operating pressure:**
max. 250 Bar /3625 psi
- **Nominal flow rate:**
max. 400 l/min / max.105 US GPM
- **Materials:**
Filter Head: Ductile Iron
Filter Cartridge:Steel
- **Connections:**
optional threaded connection
or SEA flange connection



High Pressure Filters for Hydraulic Lines
Threaded mounting holes on top and fluid inlet and outlet ports on side of head.
Aluminum alloy material, compact structure, light weight

- **Operating pressure:**
max. 210 Bar /3045 psi
- **Nominal flow rate:**
max. 240 l/min / max.63 US GPM
- **Materials:**
Filter Head: Aluminum
Filter Cartridge:Aluminum
- **Connections:**
optional threaded connection



Type PFL Medium-Pressure Filter

Medium Pressure Filters for Hydraulic Lines
Threaded mounting holes on top and fluid inlet and outlet ports on side of head.
Aluminum alloy material, compact structure, light weight

- **Operating pressure:**
max. 100 Bar /1450 psi
- **Nominal flow rate:**
max. 660 l/min / max.174 US GPM
- **Materials:**
Filter Head: Aluminum
Filter Cartridge:Aluminum
- **Connections:**
optional threaded connection



PHM Pressure Filter

Used for high-pressure filtration in hydraulic systems.
The top threaded mounting hole and the fluid inlet/outlet ports on the side of the head.

- **Operating Pressure:**
Max. 320 Bar/4641 psi
- **Nominal Flow Rate:**
Max. 170 l/min / Max. 45 US GPM
- **Material:**
Filter Head: Ductile Iron
Filter Cylinder: Steel
- **Connection Method:**
Threaded Connection or SAE Flange



Oil Return Filter

Spin-on Filter Heads

PURUISI provides a complete range of Spin-On Filters that can be used either as Suction Line filters or as Return-Line filters for low-pressure applications. The various ranges meet international standards.



PFH Pressure Filter

Used for high-pressure filtration in hydraulic systems. The top threaded mounting hole and the fluid inlet/outlet ports on the side of the head make it a high-pressure filter option with the choice of an outlet check valve or a bypass valve. It is specifically designed for high-pressure mobile or industrial applications.

- **Operating Pressure:**
Max. 420 Bar/6091 psi
- **Nominal Flow Rate:**
Max. 750 l/min / Max. 1985 US GPM
- **Material:**
Filter Head: Ductile Iron
Filter Cylinder: Steel
- **Connection Method:**
Threaded Connection or SAE Flange



PFM Pressure Filter

Used for high-pressure filtration in hydraulic systems. The top threaded mounting hole and the fluid inlet/outlet ports on the side of the head. The inline high-pressure filter is compact in size and lightweight, making it particularly suitable for mobile equipment applications and agricultural machinery.

- **Operating Pressure:**
Max. 420 Bar/6091 psi
- **Nominal Flow Rate:**
Max. 250 l/min / Max. 66 US GPM
- **Material:**
Filter Head: Ductile Iron
Filter Cylinder: Steel
- **Connection Method:**
Threaded Connection



PFMP Pressure Filter

Used for high-pressure filtration in hydraulic systems. The top threaded mounting hole and the fluid inlet/outlet ports on the side of the head. A high-pressure filter with the option of an outlet check valve, designed specifically for high-pressure mobile or industrial applications.

- **Operating Pressure:**
Max. 320 Bar/4641 psi
- **Nominal Flow Rate:**
Max. 500 l/min / Max. 132 US GPM
- **Material:**
Filter Head: Ductile Iron
Filter Cylinder: Steel
- **Connection Method:**
Threaded Connection or SAE Flange (optional)



PHPM Pressure Filter

Used for high-pressure filtration in hydraulic systems. The top threaded mounting hole and the fluid inlet/outlet ports on the side of the head. A high-pressure filter with the option of an outlet check valve, designed specifically for high-pressure mobile or industrial applications.

- **Operating Pressure:**
Max. 420 Bar/6091 psi
- **Nominal Flow Rate:**
Max. 400 l/min / Max. 105 US GPM
- **Material:**
Filter Head: Ductile Iron
Filter Cylinder: Steel
- **Connection Method:**
Threaded Connection or SAE Flange (optional)

Materials:

- Filter Head: Aluminum

Connections:

- BSP threaded
- NPT
- others on request

Operating temperature:

- -30°C~+100°C
- -22°F~+212°F

Options and Accessories

- Clogging Indicator
- Visual Clogging Indicator
- Electrical Jam Switch
- Bypass Valve Others on request

Media Compatibility:

- Mineral oils, others on request

Operating pressure:

- max. 14 Bar /203 psi

Nominal flow rate:

- max. 320 l/min / max.84 US GPM



Spin-on Filter Head
Mounting holes in the top surface of the filter head and fluid inlet and outlet ports on the side of the head



Spin-on Filter Head
Plate connection



Spin-on Filter Head
Mounting holes in the top surface of the filter head and fluid inlet and outlet ports on the side of the head



Duplex Spin-on Filter Head



Mobile Filtration Systems

- That is, portable or wheeled filter units with integrated motor/pump modules. Professional hydraulic system and lubricating oil system are filled with new oil, and the original oil is purified. Replaces permanently installed partial flow filters for cost-effective and flexible use on multiple machines and systems. Sturdy design. Easy to operate and maintain.
- PURUISI mobile filtration systems are designed to cover a wide range of applications in the field of offline filtration. Compact, powerful and durable, these units aid in preventative maintenance, whether transferring new oil or purging existing hydraulic and lubricating oil systems. By selecting high-quality components, it is possible to purify small and medium-sized systems in a very short time or perform permanent off-line filtration on large hydraulic systems.

Media Compatibility

- Mineral oils, others on request

Options and Accessories

- Valves: Bypass valve, reverse flow valve, check valve or multi-function valve available

Portable Filtration System

Portable handheld unit
Compact and lightweight design
Very flexible
High quality gear pump



- **Nominal flow rate:**
max. 15 l/min / max.3.3 US GPM
- **Micron rating:**
max.10 µ m
- **Motor Power:**
0.37Kw



Mobile Filtration Systems

High benchmark traffic
long run time
Premium gear pump

- **Nominal flow rate:**
max. 100 l/min / max.22 US GPM
- **Micron rating:**
max.3 µ m
- **Motor Power:**
0.37Kw

Mobile Filtration Systems

High benchmark traffic
Long run time
High quality gear pump
Double filter



In-line Filtration Systems

- PURUISI online single and double filters are designed for online hydraulic applications. With their compact structure and easy-to-maintain components, the products have the advantages of high filtration accuracy, strong oil passage capacity, and large dirt-holding capacity.
- The two housings of the duplex filter are connected with a special gate valve operated by a level wheel or hand wheel. Therefore, the filter can be serviced without shutting down the hydraulic system.

Media Compatibility

- Mineral oils, others on request

Options and Accessories

- Valves: Bypass valve
- Reversing valve

Clogging Indicators

- Visual clogging indicator, electrical clogging switch, visual-electrical indicator available upon request
Others on request

Type PRFL In-line Filter

Hydraulic system oil return line filter



- **Operating pressure:**
max.16 Bar /232 psi
- **Nominal flow rate:**
max. 1300 l/min / max.343 US GPM
- **Materials:**
Filter : Steel
Stainless steel
- **Connections:**
Flange connection

Type PDRLF Duplex in-line filter

Hydraulic system oil return line filter



- **Operating pressure:**
max.16 Bar /232 psi
- **Nominal flow rate:**
max. 9100 l/min / max.2404 US GPM
- **Materials:**
Filter : Steel
Stainless steel
- **Connections:**
Flange connection

Type SZL In-line filter

Hydraulic system oil return line filter



- **Operating pressure:**
max.16 Bar /232 psi
- **Nominal flow rate:**
max. 1300 l/min / max.343 US GPM
- **Materials:**
Filter : Steel
Stainless steel
- **Connections:**
Flange connection



Filter Breather

- When the hydraulic system is working, the oil level in the fuel tank rises or falls from time to time, the air is discharged from the inside to the outside when it rises, and the air is sucked in from the outside to the inside when it falls. In order to protect the oil in the tank, a breathing filter is installed on the tank to filter the impurities in the inhaled air;
- Shorter exhaust cycles significantly extend respirator life and maintenance intervals as well as fluid life. The process also reduces foaming and cavitation in the tank, providing additional protection against fluid wear and breakdown.
- At the same time, the breathing filter can also be an oil-filling port, and the injected new working oil must be filtered before entering the oil tank, thereby filtering out the dirt particles that may exist in the oil.

Options and Accessories

- valve
The preloaded check valve can also be added

Type PB-1162/1163 Breather Filter

It is used for the air filter installed vertically on the fuel tank, and it also acts as a grease nozzle. It is detachable and can be cleaned and replaced at any time.

- **Micron rating:** 100 μm
- **Connections:** Screw fixed



Type PEF Breather Filter

Additional copper-based powder metallurgy sintered filter, can withstand thermal stress and impact and work normally under high temperature.

- **Micron rating(Oil):** max.125 μm
- **Micron rating(Ail):** max.105 μm
- **Air flow:** max.1.5m³/min
- **Fuel flow:** max.160L/min
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Connections:** Screw connection



Type PUQ Breather Filter

A one-way valve can be added. When the pressure in the tank is greater than the predetermined pressure, the exhaust (suction) one-way valve will work to maintain the pressure in the tank and keep the liquid level in the tank stable.

- **Micron rating:** max.10 μm
- **Connections:** max.10m³/min
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Connections:** Screw connection

(Also available in full plastic in the same size)



Type PAF Breather Filter with Lock

Designed to be used as a lockable filler port for hydraulic tanks

- **Micron rating(Ail):** max.40 μm
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Connections:** Screw connection



Filter Breather

Type PB Breather Filter

All-metal housing and threaded connections

- **Micron rating (Air) :** max.40 μm
- **Air flow:** max.7.1m³/min
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Materials:**
Shell: iron
Thread: Aluminum
Filter element: filter paper
- **Connections:** Threaded connection



Tank cap Breather filter

Air filters available with various threaded connections
Contact Information and Contact Sales



Type PC Breather Filter

Metal housing and nylon threaded interface

- **Micron rating (Air) :** max.10 μm
- **Air flow:** max.15.85m³/min
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Materials:**
Shell: iron
Thread: Nylon
Filter element: Filter paper
- **Connections:** Threaded connection



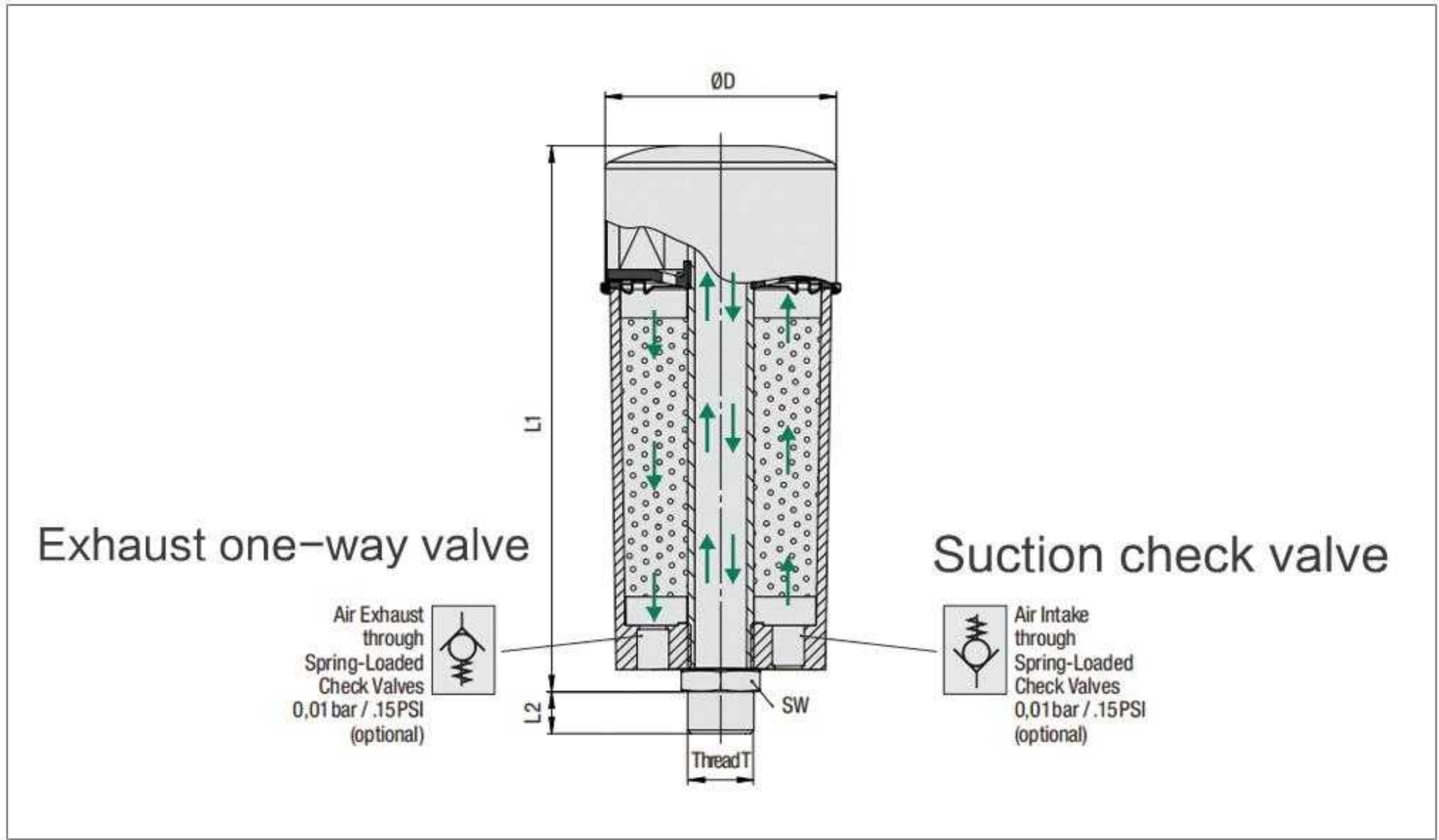


Particle and Desiccant Breathers

- PURUISI moisture-absorbing air filters are robust in design and are suitable for use in particularly demanding areas of mobile hydraulic systems (e.g. construction, mining, and demolition industries). The UV-resistant plastic housing is designed with an internal stainless steel tube for maximum stability of the product.
- The hygroscopic air filter can be installed on the system through the external thread at the lower end of the stainless steel tube.
- A non-return valve integrated into the housing isolates the dry material from the atmosphere, increasing service life.
- A change in color of the desiccant material indicates that it needs to be replaced (from blue to pink in the standard version). If necessary, the user can easily replace the desiccant as well as the spin-on filter. PURUISI provides corresponding supplementary and maintenance accessories.

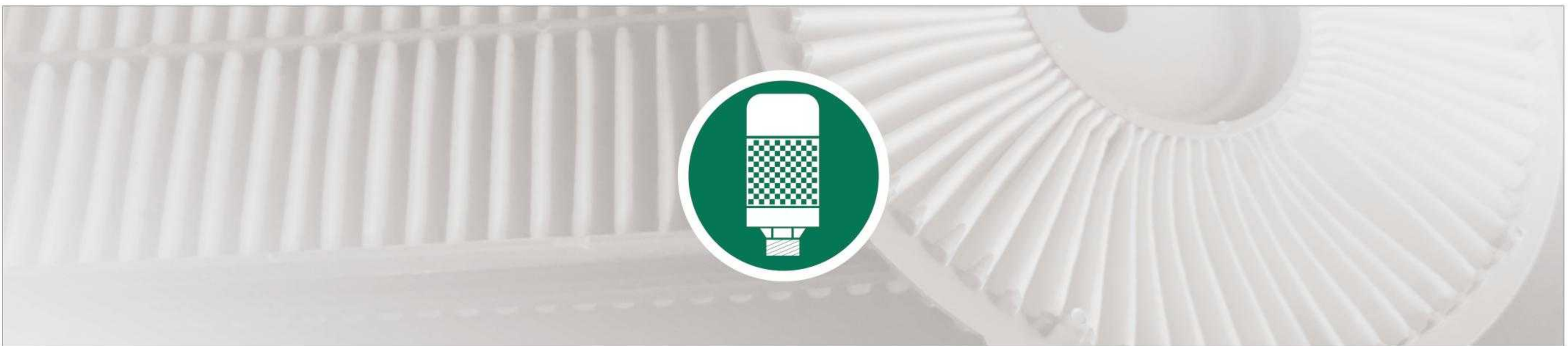
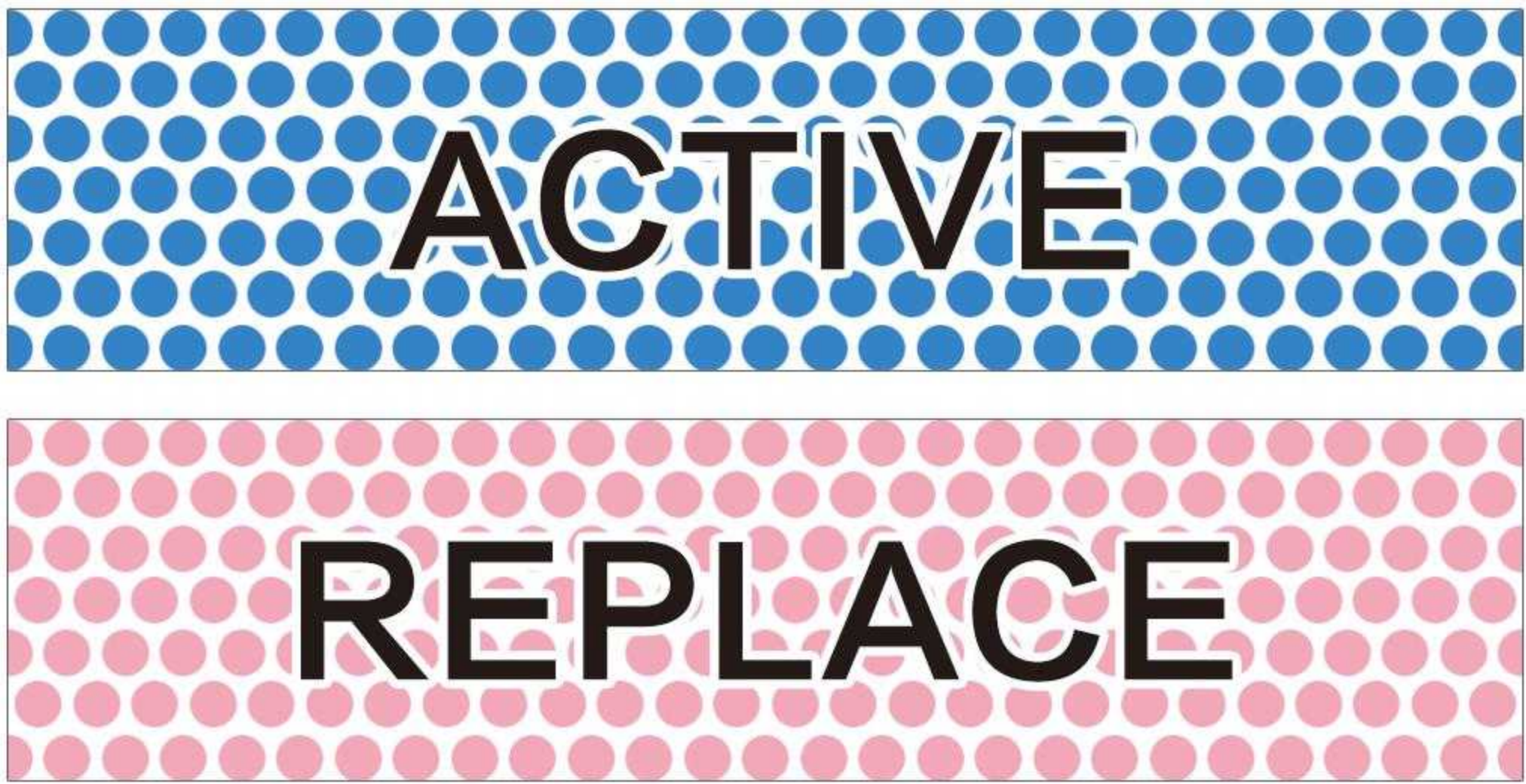
Feature function

- When the tank or gearbox is operating, the gas inside is exhausted and the gas outside is entered, and air laden with moisture is drawn into the system. Temperature changes can cause moisture in the air to condense, which can accelerate fluid oxidation and cause system damage. With a hygroscopic air filter, incoming air passes first through a coarse filter, then a desiccant, and finally an air breather element that filters out any dust particles other than moisture.



Desiccant

- As the moisture in the particle increases, the color will change accordingly



Particle and Desiccant Breathers

Type PAB Desiccant Breathers

Stainless steel injector male fitting for direct mounting on the system
Simple structure, built-in breathing one-way valve, maximally prolonging the service life of the product
Easy to replace the desiccant structure, reducing replacement costs



- **Moisture absorption:**
Max.570g
- **Air flow:**
1.25m³ /min
- **Filtration accuracy:**
Max.3 μm

Type PLS Desiccant Breathers

The closed structure directly discharges the air to the atmosphere without the dehumidifier, prolonging the service life of the dehumidifier. The structure is simple, and the built-in breathing one-way valve maximizes the service life of the product.
Easy to replace the desiccant structure, reducing replacement costs.



- **Moisture absorption:**
Max.1000g
- **Air flow:**
1m³ /min
- **Filtration accuracy:**
≤180 μm

Type PC Desiccant Breathers

Plastic injector male fitting for direct mounting on the system
Simple structure, built-in breathing one-way valve, maximally prolonging the service life of the product
Easy to replace the desiccant structure, reducing replacement costs



- **Moisture absorption:**
Max.356g
- **Air flow:**
453L/min
- **Filtration accuracy:**
Max.3 μm



Level and Temperature Gauges

- PURUISI level gauges and temperature indicators are available in different versions and sizes. They are suitable for optical and combined optical/electrical level monitoring and temperature measurement in hydraulic tanks with a maximum pressure of 2 bar.
- The liquid level gauge can easily know the liquid level in the fuel tank. Fluid enters the unit through the lower connecting hole and is clearly visible in the tube. By choosing the right size, a specific liquid level can be monitored. At the same time the products are superior, sturdy, crack-proof, shock-proof, leak-proof, and UV-proof.

Media Compatibility

- Mineral oils, others on request

Options and Accessories

- Valve: check valve available
- Temperature: thermometer temperature sensor metal thermometer thermal control

NOTE:

- 1: The installation torque of the liquid level gauge screw is: 10N.m.
- 2: Choose different specifications of the liquid level gauge according to the size of the center



Type PND Level

Hydraulic tank visual level indication
Different types of thermometers can be selected according to different sizes

- **Operating pressure:** max. 1.5 Bar /21 psi
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Connections:** M10/M12 bolt connection



Type JG Level

Acrylic hydraulic tank visual level indication

- **Operating pressure:** max. 2 Bar /29 psi
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Connections:** M10/M12 bolt connection



PNL-3/-5

Hydraulic tank visual level indication

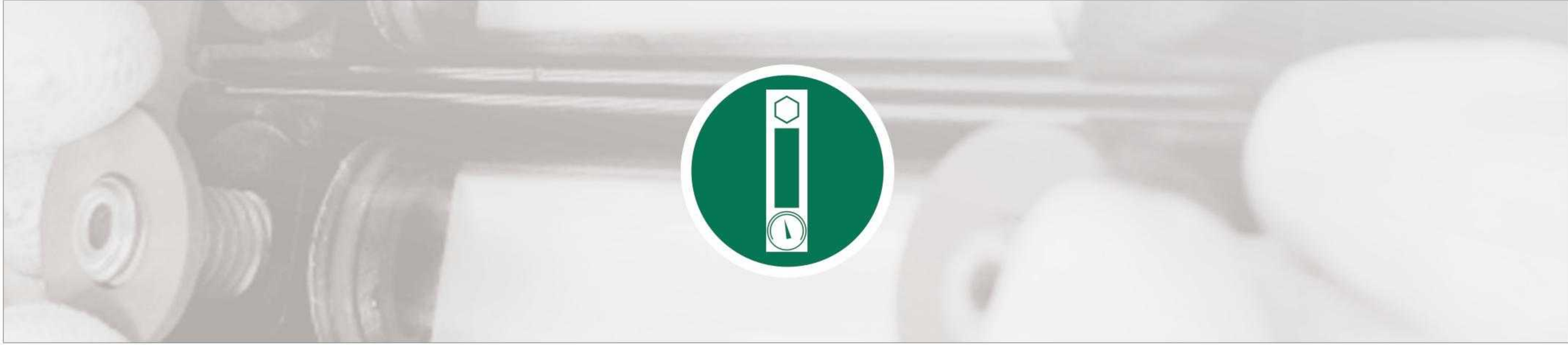
- **Operating pressure:** max. 1.5 Bar /21 psi
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Connections:** M10/M12 bolt connection



Type DKS Electrical and visual oil level indicator

A liquid level control thermometer that can be turned on and off when the switch level is reached
Simultaneous visual/electronic level indication in hydraulic tanks

- **Operating pressure:** max. 1.5 Bar /21 psi
- **Operating temperature:** -20°C~+80°C / -4°F~+176°F
- **Connections:** M10/M12 bolt connection



Level and Temperature Gauges



Type PKJD Level Control Relay

Contacts of any height can be selected
PKJD type liquid level control relay is a new type of liquid level height electrical transmission control device, which is mainly used for automatic control or alarm of liquid position in storage tank and liquid source motor. It has the characteristics of compact structure, sensitive control and simple installation.

- **Action time:** Max.356g
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Connection method:** screw fixed
- **Contact resistance (Ω):** 0.1 DC24(V)X0.2(A)
- **Contact capacity:** DC24(V)X0.2(A) AC220(V)X0.02(A)



O-LEVEL-1

Round oil dipsticks available in different thread sizes

- **Action time:** max. 1.5 Bar /21 psi
- **Operating temperature:** -20°C~+100°C / -4°F~+212°F
- **Connection method:** Threaded connection



Temperature Sensor

Temperature sensor that can be attached to the level gauge

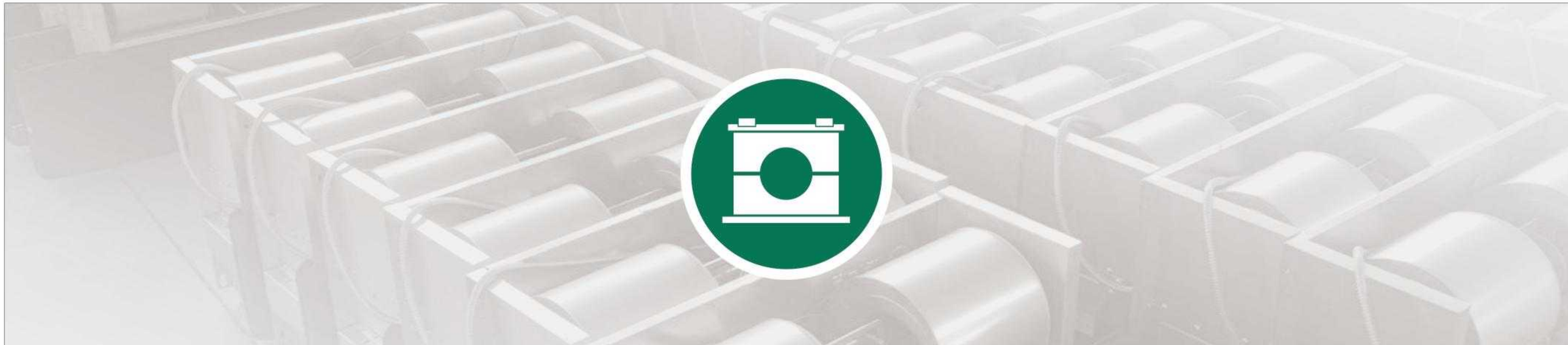
(It can also be replaced with a temperature switch)

- **Connections:** M12 bolt connection



Metal thermometer

- **Temperature range:** 0°C~+100°C / 32°F~+212°F



Clamp And Other



Clamp



Tank cleaning cap



Contamination clogging indicator



Contamination clogging indicator



Pressure gauge switch